have a source coder/decoder 10, 20, e.g. for speech, a first channel coder/decoder 11, 21, a coding mode means 12, 22, a second channel coder/decoder 13, 23, a formatting and interleaving/de-interleaving means 14, 24, a transceiver 15, 25, and an antenna 16, 26. Several other elements are used in the fixed part of the network 1 and the mobile part, e.g. an equalizer is used within the transceivers 15 and 25, for the sake of an easier understanding of the present invention these elements are not shown as they are not relevant for this invention. For greater detail of the radio network reference is made to the mentioned state of the art.

IN THE CLAIMS

1. (unchanged) A method for signaling of information in a frame based transmission system, whereat the signaling information contains information necessary for the operation of the transmission system.

characterized by steps of

inserting signaling information related to individual frames into said individual frames, and

partitioning signaling information and inserting said partitioned signaling information into different frames.

2. (amended) A method according to claim 1,

characterized in that

said inserted signaling information and said inserted partitioned signaling information are synchronized by using the given synchronization of the frame based transmission system.

3. (amended) A method according to claim 1 or 2,

characterized in that

said signaling information and said partitioned signaling information indicate a coding mode used for coding and decoding data in the transmission system.

4. (amended) A method according to claim 1,

characterized in that

said inserted signaling information related to individual frames indicates a coding mode used for coding and decoding data in the transmission system, said partitioned signaling information inserted into different frames of the uplink is a quality measurement for the transmission, and

said partitioned signaling information inserted into different frames of the downlink indicates a coding mode used for coding and decoding data in the transmission system.

5. (amended) A method according to claim 1,

characterized in that

said inserted signaling information related to individual frames is channel coded separately.

6. (amended) A method according to claim 1,

characterized in that

said partitioned signaling information inserted into different frames is channel coded together with data contained in said different frames.

7. (amended) A method according to claim 1,

characterized in that

the transmission system is a radio network system.

8. (amended) A method according to claim 7,

characterized in that

said radio network system is a GSM system.

9. (unchanged) A frame based transmission system for signaling of information, whereat the signaling information contains information necessary for the operation of the transmission system, having

means for coding and decoding of data (10,11; 20,21),

means for handling the coded data in frame format (14;24), and

means for transmitting and receiving the frames (15,16;25,26),

characterized by

means for inserting and evaluating signaling information (12;22) into and from individual frames related to said individual frames, and

means for partitioning signaling information (12;22) and inserting and evaluating said partitioned information into and from different frames.

10. (amended) A system according to claim 9,

characterized in that

means for synchronizing (10,11,14;20,21,24) are used to synchronize said inserted signaling information and said inserted partitioned signaling information according to the given synchronization of the frame based transmission system.

11. (amended) A system according to claim 9 to 10,

characterized in that

means for channel coding and decoding (13;23) are used to channel code and decode the signaling information provided by said means for inserting and evaluating signaling information (12;22) into and from individual frames.

12. (amended) A system according to claim 9,

characterized in that

the means for channel coding (11;21) are used to channel code and decode the signaling information provided by said means for partitioning signaling information (12;22) and inserting and evaluating said partitioned information into and from different frames.

13. (amended) A system according to claim 9,

characterized in that

the transmission system is a radio network system.

14. (amended) A system according to claim 13,

characterized in that

said radio network system is a GSM system.

15. (amended) A system according to claim 9,

characterized in that

said signaling information provided by said means for inserting and evaluating signaling information (12;22) into and from individual frames and said signaling information provided by said means for partitioning signaling information (12;22) and inserting and evaluating said partitioned information into and from different frames indicate coding modes used by the means for coding and decoding (10, 11; 20, 21).